Land Breakout Group

August 12, 2005

Have you used CLASS?

- 3/12 have used.
- For those who do not use
  - Required data are elsewhere.
  - Some continue to use pre-existing sources.

Through what mechanisms do you currently get archived data?

- Subscriptions and web interfaces.
- From NASA, USGS, GLCF, Landsat.org, commercial sources, internal holdings & CLASS.

Timeliness for data access

- Within 24 hours.
- More than 24 hours.
- Often a long time series is required.

Preferred File Formats

- Flat binary, geotiff, png, ascii.

- HDF not listed as preferred.

- Participants acknowledge that they will be working with HDF and other formats.

Metadata?

- FGDC & ISO.
- Enable trace to calibration data and processing version.
- Definitions of types of metadata not well known.
  - What is rich metadata?
  - Collection metadata?
  - System metadata?
- It would be useful to enable metadata to be extended or enriched over time.

APIs?

- Very important for CLASS
- Subscription services
- Bulk orders
- Image sub-setting
- CLASS should consider collaboration with NASA ECHO

Discover Tools

- Use existing standards (e.g. OGC).
- Collaborations could be useful (e.g. w/ ECHO).
- Keep it simple.
- Exploit higher level products (e.g. search for low cloud cover / low snow cover images based on EDR's).
- Fuzzy logic may be useful (e.g. selecting strict definitions of cloud cover in search may result in too many or too few returns).

Documentation

- Instrument descriptions, histories, events.

- Source code, initialization files, calibration and processing coefficients.

- Graphical timelines for instruments and processing runs would be useful.

Reprocessing

- Essential.

- It is important to enable multiple groups to conduct reprocessing to compare results before bulk reprocessing.

- Science best served by having multiple groups able to reprocess.

Gaps?

- User Services Office?
- NASA has a User Services WG that CLASS may be able to learn from.

Will Use of CLASS Data Grow?

- API's to facilitate data transfers essential to grow usage.
- NSIDC anticipates using VIIRS and CMIS data from CLASS.
- MSU anticipates using VIIRS data from CLASS.
- NGDC anticipates using VIIRS data.